

Review 187

Graphing Linear Equations

The **solutions** of $y = x + 3$ are the (x, y) pairs that make the equation true.

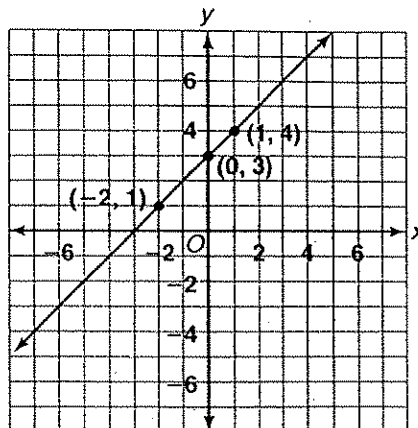
The solutions can be listed in a table.

x	$x + 3$	y	(x, y)
0	$0 + 3$	3	$(0, 3)$
1	$1 + 3$	4	$(1, 4)$
-2	$-2 + 3$	1	$(-2, 1)$

If all the solutions lie on a line, the equation is a **linear equation** and the line is its **graph**.

$y = x + 3$ is a linear equation.

The solutions can be graphed in the coordinate plane, as shown.



Complete each table.

1. $y = x - 4$

x	$x - 4$	y	(x, y)
2			
4			
6			

2. $y = 3x$

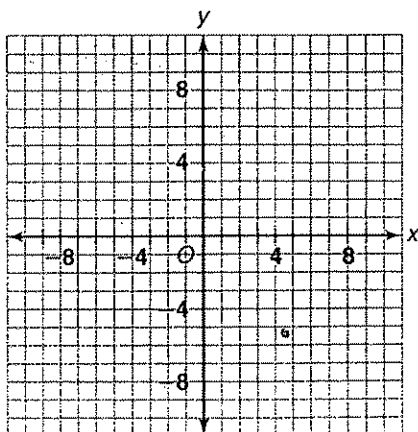
x	$3x$	y	(x, y)
-1			
0			
3			

3. $y = -x + 1$

x	$-x + 1$	y	(x, y)
0			
2			
-3			

Graph each linear equation.

4. $y = x - 5$



5. $y = 3x - 4$

